

Vol. XVIII No. 4 April 1989

Second class postage paid at Canton, Texas

Postal identification
statement, page 2

Published by Jim Cranshaw, N5FSL Monthly except July and August

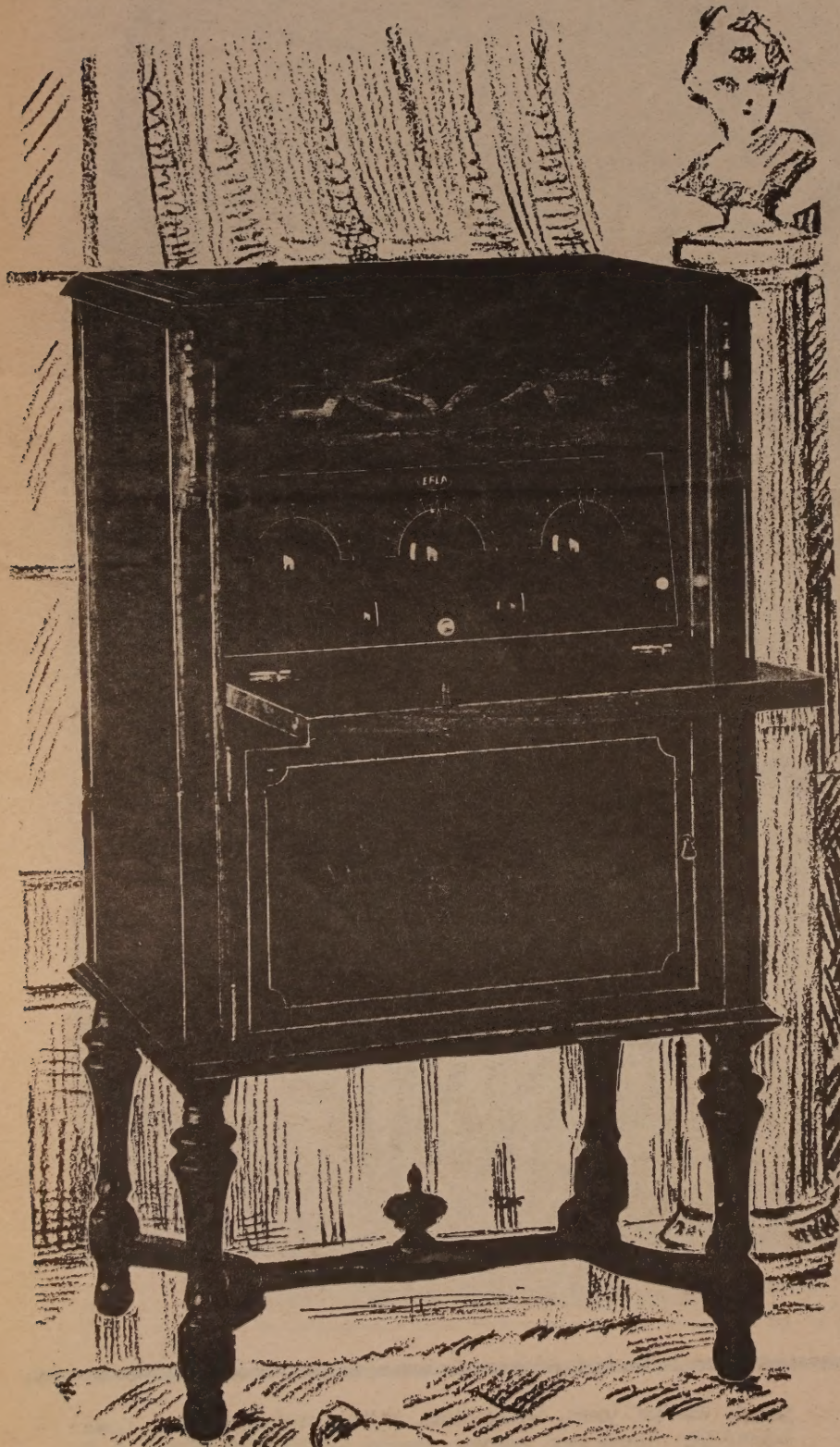
Price \$12.50 yearly Single issue \$1.50 Published since 1972

(214) 848-0304

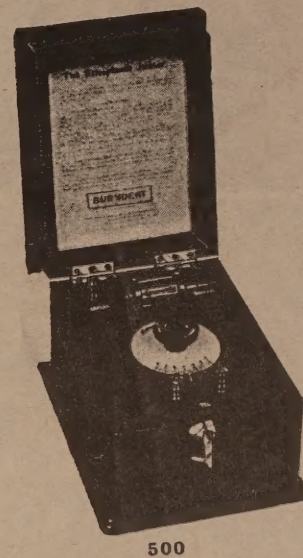
FIRST CLASS POSTAGE \$20.00 per year.

THE HORN SPEAKER

The first
and the
standard
monthly
publication
for radio
collectors
since 1972

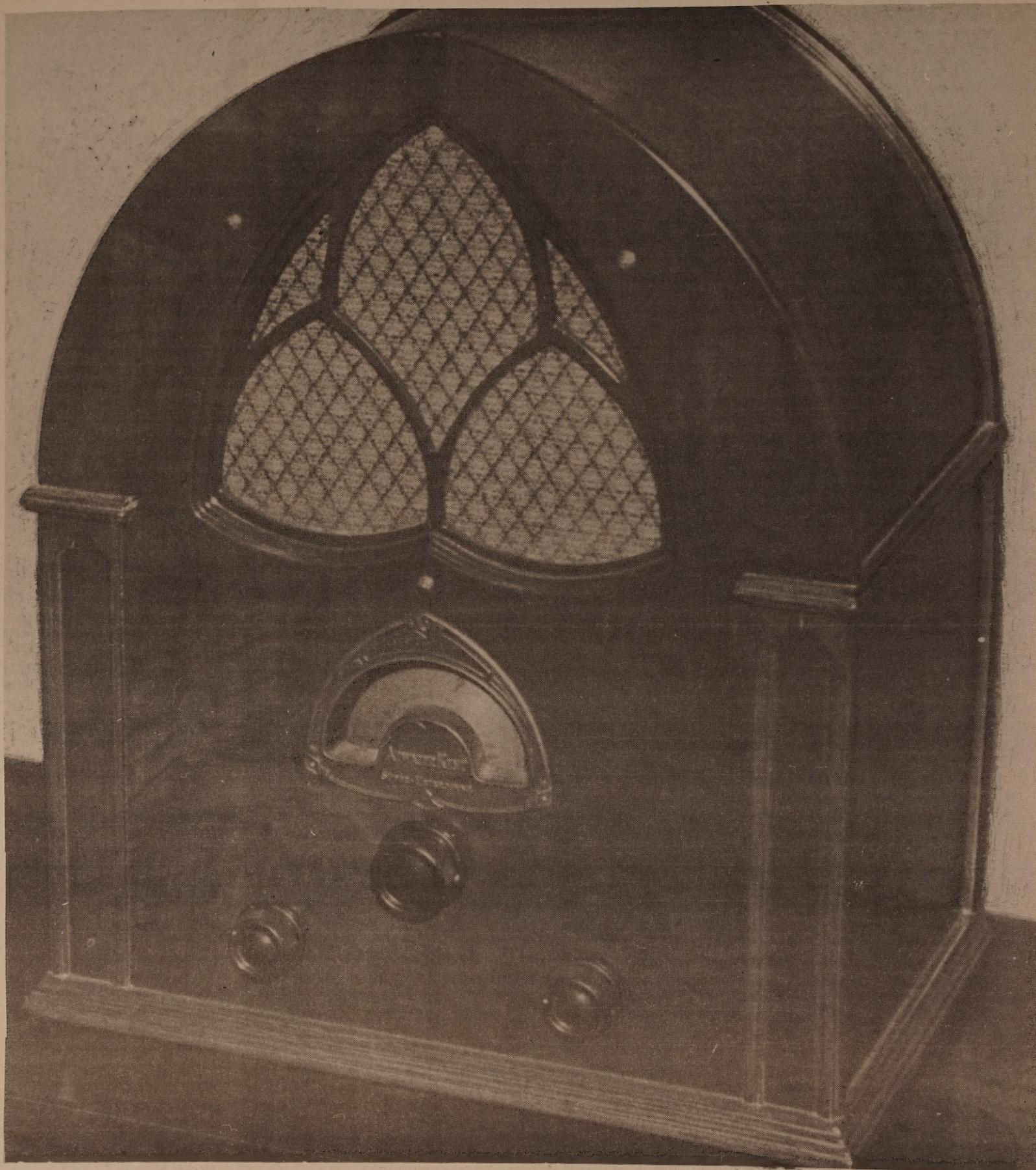


Ethophone Junior



This 1924 Burndept crystal set is a beauty of English design.

A typical radio of the 1920s is this Earla, Electrical Radio Laboratories, radio. George A. Pearson left a good automobile business to build radios, something he fell in love with in his home workshop. The mid-twenties were the best times for Earla. Later, times were not so good and in 1934 the company operated under the Sentinel name, which went to Magnavox in 1956.



1931 Atwater Kent, model 84, "golden voice", owned by Steve Chapman.

POSTAL IDENTIFICATION STATEMENT—THE HORN SPEAKER (USPS 956120) is published monthly, except July and August by Jim Cranshaw, Route 3 Box 79, Canton, Texas 75103. Subscription rates are \$12.50 yearly and

\$20.00 for two years. Second class postage paid at Canton, Texas. POSTMASTER: Please send address changes to: THE HORN SPEAKER, P. O. Box 1193, Mabank, Texas 75147.

Radio News for August, 1922

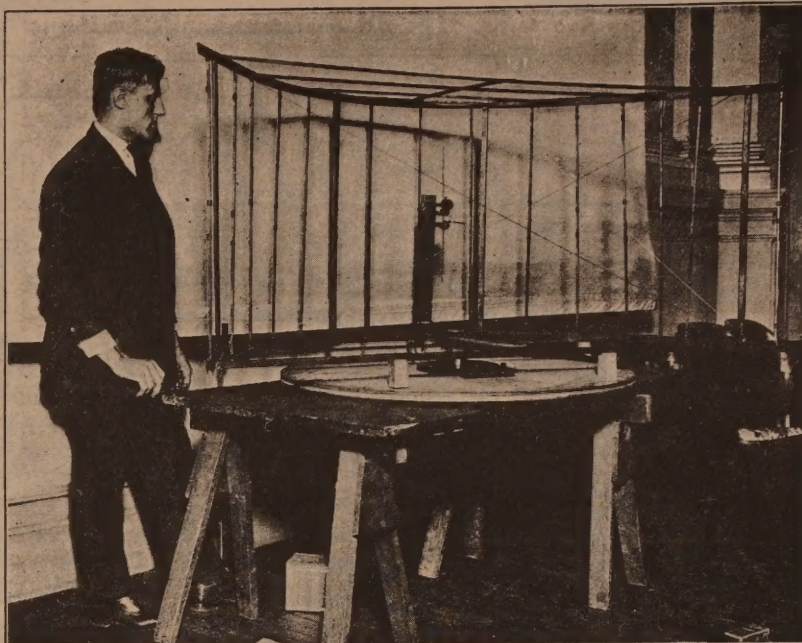
Marconi Presented With Radio Institute Medal of Honor

Demonstrates New Device for Uni-Directional Transmission

GUGLIELMO MARCONI, the man who first developed radio telegraphy, delivered an address on June 20 before the largest crowd that has ever gained admittance to the auditorium of the Engineering Societies Building in New York. He astonished everybody by describing his experiments with reflectors for uni-directional transmission of radio waves. The instrument which he described demonstrated the possibility of radio light-houses, equipped with reflectors which would revolve and transmit radio waves in much the same manner as a beam of light is at present radiated. By this means ships would be informed of their positions without relying upon the light-houses, which are invisible in a fog.

On the stage from which he spoke Mr. Marconi had erected a model of the reflector. The general design of this reflector is shown in the photograph on the right. A short distance away a receiver represented the ship station. Mr. Marconi demonstrated that it was necessary that the reflector be turned in the direction of the receiver for the signals to be received. When the reflector was revolved in such a way that it did not point towards the receiver no sound was heard from the latter.

Mr. Marconi reminded his audience of his earliest experiments in radio communication, at which time he had experimented with radio waves a few inches in length. Since that time most of the experiments have been conducted with much longer wave lengths, ranging up to 25,000 meters. However, since it is possible to reflect wireless waves much in the same manner as it is possible to reflect light, Mr. Marconi has been returning to the shorter wave lengths. By this method of reflection the energy is concentrated in one direction, instead of being radiated in all directions, as in the case of the ordinary transmitter. He found that static interference practically did not exist on the very short wave lengths, although interference



This Screen, Used in the Demonstration of Uni-Directional Transmission, May be Rotated, and the Waves Sent in a Particular Direction in the Same Way as a Beam of Light is Thrown From a Searchlight.

was caused by the ignition apparatus of automobiles and motor-boats. The wave length it is possible to use by this reflection method is, in any case, limited, as the dimensions of the reflector would be increased in proportion to the increase of wave length.

In 1916 Mr. Marconi conducted experiments in Italy in which waves of two and three meters were employed. The reflector

was made of a number of strips of wires tuned to the wave and arranged in a cylindrical form. The transmitting system was revolved. These experiments showed that good directional work could be obtained with reflectors of the proper proportions and respective wave lengths. Later on, in England, tests on the same wave length demonstrated the fact that much better results could be obtained when the transmitter and receiver were elevated from the surface of the ground. With a transmitter at a height of 600' and a receiver 300' from the ground, with a clear air line between, a distance of 20 miles was covered with a 3-meter wave length. At sea level it was only possible to transmit a distance of four miles. When both transmitter and receiver were at low level, the distance it was possible to transmit seemed to depend greatly upon the nature of the intervening country. In 1919 further ex-

periments were made in England, in which a wave of 15 meters was used and a single vacuum tube transmitter. In place of the crystal receiver of previous experiments, a vacuum tube receiver with external heterodyne was employed. The same type of reflector was again used and strong speech was easily obtained at a distance of 20 miles. Later, on the same wave length of 15 meters, speech was exchanged at a distance of 100 miles between London and Birmingham. This was a record for long distance transmission and reception of short waves.

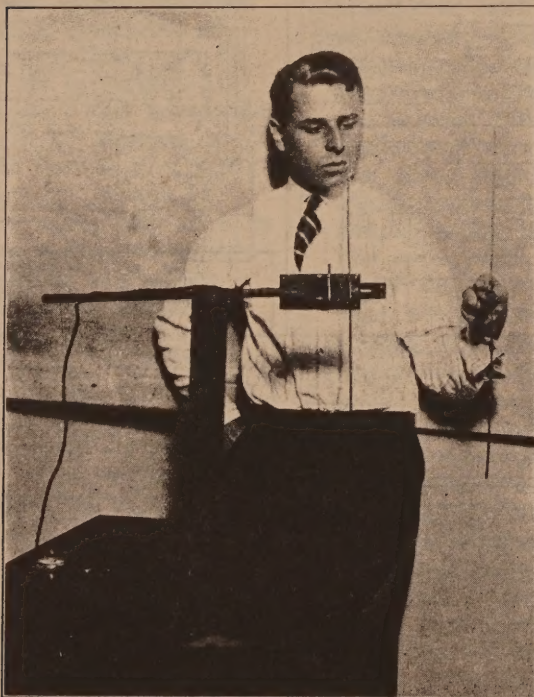
At the conclusion of his address Mr. Marconi was presented with the gold medal of honor of the Institute of Radio Engineers. The meeting was held under the joint auspices of that society and the Society of Electrical Engineers. In his appreciation Mr. Marconi declared his belief that America led the world in radio communication.

The meeting was attended by nearly 1,100 people and hundreds of others eager to see the great inventor and hear his address were disappointed and turned away from the doors.

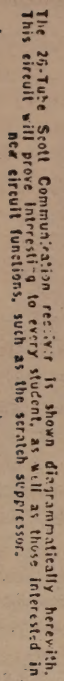
Mr. Marconi has not made any definite plans for his visit to this country. He left New York and sailed up the Hudson on the *Electra* on his way to Schenectady. On this cruise Mr. Marconi staged a radio dance to entertain his guests. Dance music was furnished by one of the broadcasting stations, and on the deck of the *Electra* a loud-speaker took the place of an orchestra.

At Schenectady Mr. Marconi met Dr. Lenz and Dr. Steinmetz and expressed considerable interest in the 50-kilowatt tube shown to him. In the evening the radio audience was entertained by an address delivered by Mr. Marconi from the Schenectady broadcasting station of the General Electric Company.

Editor's Note.—It is expected in a future issue of RADIO NEWS to give further details concerning experiments in directional transmission conducted in England by Mr. Marconi.



The Special Apparatus Used for the Reception of Very Short Waves.



SCOTT *Communications*

26 Tubes RECEIVER

Take a look at the 1941 Scott Communications radio on page 4.

OLD INFO

By Brent Dingman

Supplying wiring diagrams and schematic data to radio and or vintage electronics is an art in its own field just as important as repairing and restoring them. We will try to define in a historical sense their value so persons can relate and understand the monumental task involved plus the important role they play.

Two best known forms of diagrams for radios are schematics and perspectives (pictorial), both put together with a number of lines. We will not go into the technical detail analysis of each diagram, because this is a subject that can be covered separately. Diagrams will be referred to as schematics throughout the text.

Inventors usually experiment and make up the physical apparatus or component first, after they get it perfected and decide to patent it prepare the paper work and schematics. In the design field it happens today just as it did before the days of wireless. The next phases if more components or parts are used is the make-up of the entire assembly. Lets call the assembly a simple crystal set. A complete schematic is usually made up physically with an ohmmeter and pencil. Electrically we know it works and all the bugs are eliminated, but we still have a jungle or maze of wires on ten pieces of paper. This is placed in a neat logical order input to output. From the antenna through all the components to the headsets (output) we have the most common expression used in radio called a "radio diagram"...a complete schematic called a closed loop. Many times inventions were made up as a hobby physically and no paper work ever finished, therefore they were not submitted for patents. Once someone else discovered the working model it was just a matter of getting the paper work to the proper patent attorney and the in-

vention was yours. In the infancy of radio, if there was ten similar circuits we know they let the courts make the decision who was right. From 1872 to 1924 there were about 2400 radio patents on every conceivable subject. Who owns these patents were decided upon by the schematics that were published many times in the various radio publications by the day, month, and year.

How many times have you ordered a schematic from someone or researched it out yourself and could not make heads or tails of it? The problems are multiplied many times over when you apply this approach to the very early radios of the 1920's such as non-regenerative, regenerative, super-regeneratives, the neutrodyne, etc., especially the unknown radios without any tubes, numbers, nomenclature, those kit radios made by anybody. Major manufacturers were afraid of other companies infringing on their rights and patents. Once a major manufacturer such as Westinghouse started manufacturing and selling their radio products, one example the Aeriola Jr. there was no law or requirements forcing them to supply a service schematic. The radio serviceman and customer were given the operating instructions on the lid of the set, but not the internal workings of the set...till mass production was under way in full force. We do not want to pick on Westinghouse, but in a free enterprising system many other small companies would pop up with what they thought was a better design (some would not even work), we even have that happening today...re-designing around their circuits...adding a new dial or feature, promote it and be gone in six months or till the courts intercepted.

From 1900 to 1920 we saw every large newspaper get into competition with the radio industry. Soon every small newspaper had their own radio section, circuits were published by the thousands so that the public could get enough information to build themselves a radio. This started the boom which the large manufacturers could not control. Many radio amateurs were the proving grounds for

Antique Radios



David & Nancy Snow
P.O. Box 6352
Jackson, MI 49204
(517) 750-4992

We Buy, Sell, Repair

ARBE - III Battery Eliminators

the larger firms. They would get their station operating and submit the information for publications to the newspapers, from the newspapers many of our large radio magazines were born. The major companies through trial and error of the public and radio amateurs gathered all the ideas and schematics up. Many were incorporated, many not used so the radio amateurs formed their own American Radio Relay League. Their magazine QST published their schematics instead of being discarded and the rest is history.

The major companies such as RCA started distributing their license circuit schematics to other manufacturers and especially the major parts manufacturers such as General Radio sold their parts to smaller companies which started making kit radios. One such company started in 1923 by Charles R. Leutz called the Experimenters Information Service, Inc., he sold GR parts and developed the large fine blueprints of his kit radios. If many readers really want an inside projection of why and how these large classic-kit radios were developed, sold to the public using his system of developing each stage of the different types of radio circuits, associated schematics from other sources (not found in any other publications) get his 1925 book titled *Modern Radio Reception*.

It is our favorite book because it proves how schematics and magazines (with a law suit from Westinghouse and Radio Corporation of America) documented the proof Leutz was recommending and selling his Model "L" and Model "C" Super-Heterodynes before RCA's "Radiola Grand." In January 1923 issue of *Radio News* Leutz advertised on page 1393 the Model "L" S/H and the blueprint designs; again in 1923 July issue of *Radio News* he carried the first advertised famous Model "C" S/H blueprint designs illustrating all details. In March 1924 issue of *Radio News* RCA made the first public announcement of the coming Radiola S/H's, over 14 months after Experimenters started advocating this system and 8 months of the introduction of the Model "C".

There are many smaller kit companies too numerous to mention, but they all had the same thing in common...sell you the blueprints and parts to build that radio. Many of the larger companies, once the product sold would issue you a construction book on everything you needed to build their radio. Many books covered up to 10 different models such as 1927 Radio Key book covering not only all the All-American Products, but the Roberts, Browning-Drake or any other kit manufacturer using their products. Other books are: F.A.D. Andrea, Inc. 1923 Hazeltine's Circuits Neutrodynes, Cockadays 23-lessons in Radio, Popular Radio's Handbook No. 1 1923, ERIA booklets and pamphlets. Please keep in mind some companies just sold the schematics, some were distributors for just the "parts only" and told the reader to look in some issue of a newspaper or magazine for the circuit-type. There were radio "fax" booklets and 1920-25 circular file-type 3 x 5 cards covering different models.

We can see there are many many publications available, but in the radio amateur wireless field....if one wanted to learn more about the subject two of the best books were written on Marconi's theory and stations by Elmer Bucher, 1917 Practical Wireless Telegraphy book. This explains the theory to the general public plus it was used world wide as a complete text for students of radio communications. In 1917 only 10,000 were printed and in 1918 40,000. Well illustrated with over 350 items that cover 17 sections...facts taken from the Marconi Company plus himself. In 1920 Elmer wrote the sister book called The Wireless Experimenter's Manual. The student well versed in the 1917 book of theory could apply this knowledge by building Marconi's earliest equipment, which included a step-by-step detail analysis on "how to" construct a crystal detector to an amateur and a complete broadcast station. The book contains over 350 illustrations of commercial Marconi equipment not found anywhere else unless you are lucky enough to have his original drawings and blueprints.

Both books are scarce.

We can not forget this 1900 to 1925 period, because some of the only schematic data on equipment you can find is found in the following booklets, sales brochures and major old catalogs: The 1920 Young and McCombs Catalog illustrates the very early radio apparatus of merit, Audions, De Forest 15 Unit panel receiver, 10-panel, RS-100, series P-100, 200, 300, T-200 audion, De Forest A.C. type O transmitter, OT-10, spark gaps; 1921

F.D. Pitts Catalog, Grebe 2-step RORB, Clapp-Eastham, Grebe's RKAB, CR-1, 2, 4, 6, 7 omnigraphs, and all the parts, prices etc. Some of the best large catalogs on early wireless are the Wm. B. Duck books series and E. I. Company Catalogs. These catalogs cover wireless items from A to Z.

Each manufacture designed their service data and schematics for their own use, not caring very much if the radio service man or customer got help. They all used different parts, then assigned part numbers. UX201-A tube used throughout industry was the same, but some companies such as AK (Atwater Kent) would assign part numbers such as AK403 and not UX2, 3, 401A etc., schematically illustrated as V1, V2, V3, etc., in otherwords it was not till 1933 that all parts such as tubes were standardized by the RMA (Radio Manufacturers Association). In 1939, it was decided that all schematic symbols used by the RMA would be standardized. Lets use the Atwater Kent Manufacturing company as an example: They made almost all their own parts, even the squeal... in those days before standardization there were proprietary rights between each company, they were so afraid someone would use their ideas and make a bundle, plus the fact of being in competition with each other they would try to re-design around each others circuits, patents and licenses. Have you ever been confused by the way the AK schematics were presented? They had their own codes, tubes were not labeled, color of resistors with values, all with minimum voltages and troubleshooting methods. This was the presentation and information given to other publishers only.

The Atwater Kent Original Factory Service Manuals kept at the plant explain in detail how to repair, use their codes, and analysis the data on every part and radio made. These were only given (proprietary rights) to large authorized AK dealers and distributors. Smaller dealers and customers who purchased their equipment were given the following: Operators manuals, catalogs, instruction booklets and sales brochures plus the needed advertising material such as signs etc. No repair knowledge was required by the customer, therefore all are very non-technical.

Large publication companies such as J. F. Rider, Supreme Publications, Audels, Gernsback and even smaller ones entered the market in or about 1925. We will just mention the ones most readers are familiar with. All had the same idea of providing a better system of present-

ing schematics and service data. Now that the radio manufacturers were busy making millions of sets it was better to contract it out. To promote a new radio a manufacturer had to see how well the new product was going to move so they tested it by advertising in some type of major radio publications, remember these publications were on the market as early as 1908 and I will explain later....the editor would be supplied with the literature and sometimes a set. Many times the schematics and data, photos were redrawn and presented in a better format. A major company either did not appreciate the reviews or maybe the editor was told not to publish the information, but after reviewing early radio magazines I could never understand why "major blue-chip radios" were advertised in the magazine but the schematics and detailed parts were never reviewed by them, but each radio magazine such as Radio Broadcast had a radio in kit form you could build from the magazine such as the 1927 RB "LAB" model.

When these articles were published in the early years of radio, I guess the only writers in which readers had faith were the chief engineers of the radio company that designed the set because I only see bylines like: Lawrence Cockaday, Kimball Stark, E. N. Rauland, just to mention a few. Were these men told to provide just enough technical data to get by with? Maybe the secretive information from the early days within major companies are carried over in today's industry.. only the Shadow knows! Many radio amateurs became writers in the later years and with more competition the schematics showed great improvement... more help to the radio serviceman.

Hugo Gernsback was the greatest radio publications pioneer. Gernsback was founder of Modern Electrics in 1908, Wireless Association of America in 1908, Electrical Experimenter in 1913, Radio News in 1919, Science and Invention in 1920, Radio Craft in 1930. Many other publications were spin-offs from these, plus others, perhaps, got their ideas from him. He realized there was a great need for improvement on schematics and service data for radio serviceman because readers were flooding him with mail. Starting in late 1929 and early 1930 through 1936, he published 6 volumes called Official Radio Service Manuals, in preparation of these manuals Gernsback would get his major sources of information from each radio manufacturer's original factory service manuals and lay it out in a better format. John F. Rider and M. N. Beitman's Supreme Publications entered the field on a

large scale in 1930. They did the same thing except due to the large number of Radio Manufacturer's (about 2000 plus 12,000 models) they published just the schematic data on each model, if the circuit was the same on another model..it was referred to, leaving out alot of good service data.

Many models contain more information on the schematics than others, in many cases this is all that the manufacturer supplied, plus the fact schedules had to be met and it was a monumental task just to get the service data published. Also with all the factory service data supplied on one model it was not economically possible to provide all the data, due to the many changes and modification made, therefore these schematics were prepared for the very experienced serviceman and not the general radio collector. It was prepared to help do the job at that point in time and not be collected.

Today we have a publication firm that is still with us, Howard W. Sams or referred to as Sam's "Photo-Facts," established in about 1945, they still get their data from the factory service manual the same way only each folder has more models, illustrations, and data. As far as collectors are concerned it is only a good reference for electronics, 1940 through 1976, with very good information on early televisions, record players, general electronics if you are interested in this era. J. F. Riders and Supreme Publications also increased their data from then on, both in radio and television. Rider's last major large TV Volume was published in 1953, but our good friend Morris Beitman at Supreme Publications is still providing service information today. See chart.

Today the Supreme Series is available, so are all the J. F. Rider's radio and television volumes except the original Riders Volume No. 1. Rider's Volume No. 1-5 abridged can still be located, but due to the later revisions it lacks almost all the very very old radios found in the original volume No. 1. This volume covered about 1000 pages and 75% of the time it is impossible to get a complete set. If you are lucky it might take about two years doing a lot of trading to get a complete set. The Official Radio Service Manuals are next to impossible to find, these as far as general servicing is considered are the best source to use. Many persons, who have a set of J. F. Riders volumes, especially the abridged 1-5 or No. 1, feel they can provide you with all the data on any old radio set ever built. This is

Most radio collectors, beginners and experts are oriented to these publications. We have established this guide as an aid in determining the approximate volumes, exact page count, years the equipment was made. The years are very important, if you have the Riders Series "MASTER INDEX" and can find the volume and page, the year can now be determined, with

no index, simple use this chart. Somehow all indexes left the year off.

****The Radio Perpetual Troubleshooting manuals provides almost all FM/AM receivers, record changers, tuners, and recorders from 1930 to 1953. Original volume no. one contains 40% 1926-1930 models.**

JOHN F. RIDER PUBLICATIONS CHART

RADIO MANUALS			TELEVISION MANUALS		
VOLUME	PAGES	YEARS	VOLUME	PAGES	YEARS
1	1000	1926-1931	1	2000	All-to 1948
2	950	1931-1932	2	1896	1948-1949
3	1100	1932-1933	3	2032	1949
4	1240	1933-1934	4	2296	1949-1950
5	1050	1934-1935	5	2320	1950
1-5*	2000	1930-1935	6	2320	1950-1951
6	1240	1934-1935	7	2352	1950-1951
7	1600	1935-1936	8	2688	1951
8	1650	1936-1937	9	2136	1951-1952
9	1672	1937-1938	10	2350	1952
10	1664	1938-1939	11	2200	1952-1953
11	1652	1939-1940	12	2200	1953
12	1648	1940-1941	13	950	1953-1954
13	1672	1941-1942	14	850	1954
14	1376	April-42	15	850	1954-1955
15	2181	1942-1946	16	750	1955
16	768	1946-1947	17	750	1955-1956
17	1648	1947-1948	18	550	1956-1957
18	2036	1948			
19	2100	1948-1949			
20	1776	1949-1950			
21	1648	1950-1951			
22	1520	1950-1951			
23	1152	1951-1953			

* ABRIDGED REPLACES Vol.1-5

The television manuals provides factory-authorized service data on TV receivers, boosters, and kits. Covers most early models such as the pilot series. Volume no. 1 is the only one 8 1/2 x 11, the rest are very large 12 1/2 x 15 1/2, these manuals were advertised in 1963: volume 1 \$19.40, volume 2 through 18 \$23.52.

The radio volumes: abridged 1-5, 7-14, 17 sold for \$19.40; vol. 16 \$9.70, 15, 18, 19, \$22.05, volumes

20 & 21 \$20.58, vol. 22 \$17.64, vol. 23 \$14.70.

****All original radio manuals first editions were three-hole punched, if you get the later editions, they were all bound.**

The original radio manual volume no. 1 contains an excellent master index in front, includes many older radios: Each volume then had their own separate master index, to finally an overall master for 23 volumes, radio and TV.

not true, you have to have a good library of all books which pertain to schematics or the original factory service manuals.

When researching out the very old radio sets from the 1920-25 era, 75% can not be found in Riders, Supreme or the Official Radio Service Manuals. If you can not locate the schematic for a kit or unknown radio, you have to be a very good technician or design engineer. Look over the circuit, number of tubes, types, dials, study

each stage of the radio and then use an identical circuit from another radio. If you want to tackle the research job yourself, plan to spend about two to three hours. Try the public libraries, word of caution... many very large public libraries now micro-film all the old books and literature, newspapers, etc.

(To be continued.)

The
VINTAGE RADIO FOUNDATION



are you a member?..

You should be.
Write for Info.

Jim Lanphear
4062 Oak Point Ct.
Hayward - California
94542



flea market

AD SPACE:
Full page\$50.00

Half page\$25.00
Quarter page ...\$12.50

Business size
card ads \$1.00
Space per square
inch \$0.60

CLASSIFIED ADS FREE

UP TO 100 WORDS. Additional
words are 5 cents each.

1950-60 in binders (except 55-59).
Will break sets by year. Mike
Grimes, K5MLG, 3805 Appomattox,
Plano, TX 75023.

SET OF BACK ISSUES OF THE HORN
SPEAKER, HERBERT F. DEGAMO, 203
3RD STREET, EARLY, IA 50535.

1938 CAPITOL RADIO ENGINEERING
COURSE COMPLETE IN 8 BINDERS PLUS
19 ISSUES OF CREI NEWS BULLETINS.
1943-50 ALL MINT CONDITION \$225
U.S. VIA UPS PREPAID, JACK, (604)
522-2418, 6758 BRYANT ST., BURNABY,
B.C. V5E 1S8 CANADA

FOR SALE OR TRADE= 1938 NATIONAL
RADIO INSTITUTE RADIO COURSE: AP-
PROXIMATELY 80 BOOKLETS IN TWO NRI
BINDERS. 1938 NRI TEST ANSWERS IN
NRI GREEN BINDER. 1938 RADIO-
TRICIAN'S SERVICE MANUAL IN BLACK
BINDER. 1952 NRI RADIO COURSE IN
NRI BINDER. ALL IN GOOD CONDITION.
WISH TO TRADE AS PART PAYMENT ON
ANY MANUFACTURED CRYSTAL RADIO, OR
PARTS TO CRYSTAL RADIOS OR TWO
CALIBRATED KNOBS 2 1/2" DIAMETER OR
PHILCO ONE OR TWO TUBE 1938 SLANT
FRONT KIT RADIO OR ANY SIMILAR
ITEMS. RICHARD R. SPRATLEY, 2112
McLAIN STREET, CHESAPEAKE, VA
23324. PHONE (804) 545-2402.

THIS SERVICE MANUAL supplement
contains a list of electrical val-
ues, resistors and condenser, coils
and transformers in all Atwater
Kent radios 1924-1933 inclusive
\$3.50 P.P. 24 pages. ***** THIS
BULLETIN contains the complete list
of Philco black bakelite "by pass"
condensers, new universal types,
discontinued types with replace-
ments and condensers with internal
resistors \$1.50 P.P. — Lee
Williams, 2015B 228TH S.E. Bothell,
WA 98021.

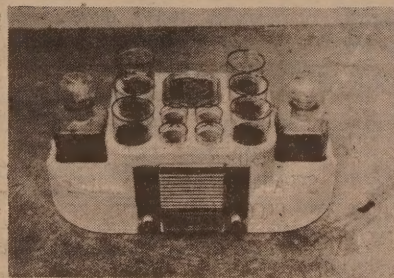
TRADE — ATWATER KENT

TRADE: I HAVE A NICE A-K 10
"breadboard" with M horn speaker
for trade for a Collins bakelite
panel amateur transmitter. Also
need schematic for a Collins 32G
transmitter. Parker, W1YG, 87 Cove
Road, Lyme, CT 06371.

FOR SALE — SCHEMATICS, BOOKS, ETC.

FOR SALE: COMPLETE SET OF POPULAR
ELECTRONICS MAGAZINES 1955-79. QST
1950-60 IN BINDERS (EXCEPT 55, 59).
MIKE GRIMES, K5MLG, 3805
APPOMATTOX, PLANO, TX 75023

FOR SALE OR TRADE— POPULAR
ELECTRONICS magazines 1956-79; QST



ANTIQUE BAR RADIO, take \$275, also
cathedrals, Hallicrafters,
tombstone, consoles, bakelite.
Several old televisions. 14 edison
and Victor horn phonographs, all
kinds. Punk, Columbia, parts extra,
large horns, radio horn \$25.00,
gisoe nick \$20.00, movie
projectors, sound and sealant.
Records, clocks, guns. Selling out.
Chuck Seidel, Days (503) 479-4282.

FOR SALE— RIDERS MANUALS, ABRIDGED
(VOL. 1-5) AND VOL. 6 THROUGH 16
\$275.00. VOL. 9, 10, 14 \$20.00
EACH. ANTIQUE RADIO SERVICE, O. H.
McDONALD, 2535 WEDGLEA #124, DAL-
LAS, TX 75211.

SCHEMATIC \$1.25 each, give make and
model number. New manuals of old
tubes, substitution guide, char-
acteristic, VT numbers and pin out
guide, Tubes, books, and parts.
Send SASE to Housel, 1816 S.W. 12,
Lincoln, NE 68522.

ELECTRONIC ORGAN SCHEMATICS AND
MANUALS. SASE FOR PRICE QUOTES.
MANY MAKES AND MODELS. ALTON H.
BOWMAN, 4172 EAST AVENUE, RD 2,
CANANDAIGUA, NY 14424.

FREE INFORMATION ON ANTIQUE RADIOS,
Robert Johnson, 1895 Curtner, Apt.
#2, San Jose, CA 95124.

FOR SALE — GENERAL

PERFECT FOR FIXING OLD RADIOS and
TVs — 2 B and K scopes model 1461
— single trace \$170.00. Model 1470
— dual trace \$190.00 with
instructions — shipping extra.
Capacitor resistor bridge and
signal tracer \$50.00. Sprague
Kwik-Test for capacitors \$35.00.
First come first served. Maurer TV,
29 S. 4th Street, Lebanon, PA
17042. Some N.O.S. tubes available
if you send SASE.

FOR SALE: UNUSED AND USED TUBES,
cone speakers, electrolytic
capacitors, electronic and computer
books, send SASE for lists, C.
Elmer Nelson, 11 S. Church Street,
Princeton, IL 61356.

FOR SALE AS LOT 100 plus radios,
pickup only, old Conelrad radio
tube type, Crosley Tridyne battery
set, Hallicrafter S-40B, S38, SW500
F.C., old Majestic 90 Zenith
Transoceanic tube type, tombstone
radios RCA GE etc., old Meissner
Radio Analyst, old tube testers for
01A, 45, 71, etc., old Steanite
radios, old voltmeters, old tubes
NOS and used 01As, 45s and 71s. old
parts, old power supplies for
battery radios, SELL SEPARATE 1923
Brunswick radio phonograph with
diamond needle and 1/2 in. thick
records large F.C. 95% of radios in
playing condition. Phone (816)
259-4359 after 5 p.m. CST.

FOR SALE: CONAR SCOPE model 250,
excellent condition; Motorola-
55X11A AM radio; National 1945
multi- navy receiver RAO-7, Hewlett

Packard 400E AC voltmeter, J-38 keyer, Knight model KG 685 color pattern generator; different types of plug in relays, CB and old unusual plug in crystals, Midland CB base station model 13-879B with large amplified desk microphone; Medical Cardi-all by Beck -Lee in wooden case; old metal Connecticut telephone, 2 Jensen osmium tip phono needles; good used tubes- 75 cents each plus shipping. Joseph Zambri, R D 4, Box 216, Towanda, PA 18848. (717) 265-4825.

THE VINTAGE RADIO FOUNDATION -- are you a member? - if not, get full information from Jim Lanphear, 4062 Oak Point Ct., Hayward, CA - 94542.

FOR SALE: RADIO RELATED TIE CLASPS & lapel pins, send a L.S.A.S.E., I also buy old wooden clocks; Michael S. Sabodish, Sr., 11 - A Matawan Avenue, Cliffwood, NJ 07721.

NATIONAL HRO. Older pin-type tubes. Rack mount. With six coil sets (not continuous). Fair shape. \$95; RME 69, rack mount (no cabinet) fair/good \$95; Two meter composite AM transceiver. Works! \$15; One WE 101D tube. Good filament. \$20.- Paul C. Crum, W9LC, 6272 N. Cicero Avenue, Chicago, IL 60646. (312) 282-3033.

FOR SALE: QST, 1917-1930; MAGNAVOX AC 3C AMP, \$250; GENERAL ELECTRIC E-61 ROUNDTOP, \$150; JACKSON 660 SIGNAL ANALYSER, \$15; A-TRONIX CODE READER, \$25; REPRO DeFOREST 0-90 CURVED SCALE PLATES, \$5; WD-11, NIB, \$40; THORDARSON SPARK TRANSFORMER, \$150; VT-1 or VT-2, \$25 EACH; RADIOLA AR1300 and AA1400, PREDECESSOR TO RADIOLA V, \$300; 23 TUBE SCOTT CONSOLE, \$600; WESTERN ELECTRIC 24A, 25A and 30A RELAYS, \$20 EACH. SASE FOR LIST. JIM COLLINGS, 12005 VICTORIA PL., OKLAHOMA CITY, OK 73120. (405) 755-4139.

FOR SALE: AIRLINE MIDGET BAKELITE, model 7777, very good, \$25. Philco 49-603, very good, opens like a book, \$25. Heathkit Mohican, mint, \$75. Admiral Bakelite, 45-J15, BC/SW, very good, \$25. JUNKERS: RCA Victor 45X1, good cabinet, FOS page 155. Crosley 56-PB, AC/Batt. Philco Transitone 52-540. All \$5. Add shipping. WANTED: Mint condition 24 hour clock for Hammarlund HQ-100A with installation instructions. J. S. Lowe, 3025 Harpers Ferry Road, Sharpsburg, MD 21782.

FOR SALE: RCA VICTOR portable AM radio #BP-10. 4 tube superhet, unusual about 1/4 the size of a

shoe box, it is oblong, handle on side, lid opens, chrome grill frontpiece! Nice! Best offer. Like new. TUBE CHECKER (old new tubes), pocket size, unused with instruction manual. quantity available. \$6.50 each. P.Pd.; - Military technical manuals, complete service with schematics for receivers. R-392/URR, R-390A/URR \$15 each P.Pd.; - Other T/M's available, low cost, send wants; - Dynamotor DM-34 #5; - Old crystal radio kits. Instructions, parts included. (quantity available) \$11. each P.Pd. (10 for \$90). D. Testa, P. O. Box 9064-HS, Newark, NJ 07104.

HEATHKIT HW-100, SHIP COD. M. G. Clute, K5DXV, Route 1 Box 1, Jewett, TX 75846.

FOR SALE: I HAVE SOLD MY RADIOS. All who have requested my list will get a revised list. I have a few battery radios and speakers. I have many amateur radios, tubes and magazines; also teletype equipment. military surplus; some nice test equipment. Amateur handbooks and magazines. I have to sell before March. Russ Olmsted, K4UJZ, 608 W. Thompson Lane, Murfreesboro, TN 37129. (615) 893-5344.

RME 69 EARLY RECEIVER, rack mount, generally good, weak on 160 meter band \$95; loose coupler, unusual replica \$35; crystal grinding outfit \$15; very early RCA/GE/Acme transmitter power supply transformer and choke (for Vu-202 & such) iron case \$45; Polaroids \$1.00@. All plus UPS. Paul C. Crum, W9LC, 6272 N. Cicero Avenue, Chicago, IL 60646. (312) 282-3033.

FOR SALE: ANTIQUE (1924 VINTAGE) ATWATER KENT BREADBOARD MODEL 10A IN ALMOST MINT CONDITION, WITH FIVE GOOD UX201A'S INCLUDING MODEL M HORN SPEAKER. WARRANTY AND INSPECTION TAGS ARE OK. \$700.00 PLUS SHIPPING AND PACKING. PREFER NOT TO SHIP. WILL CONSIDER SELLING SET OR SPEAKER SEPARATELY. LEO GIBBS, WBBHT, 701 BROOKFIELD ROAD, KETTERING OH 45429. (513) 299-3965.

SERVICE MANUALS RIDERS, HOWARD SAMS, RCA, PHILCO AND OTHERS. TUBE TESTERS, SIGNAL GEN'S. NEW AND USED TUBES, SERVICE PARTS, NEW N.O.S. VOLUME CONTROLS. DIAL BELTS. DIAL BULBS AND MORE. 1,000'S OF UNLISTED PARTS. WRITE WANTS AND SASE. NEW LIST SASE. JAMES BIDDLE FOOT CANDLES LIGHT METER \$25.00. WESTINGHOUSE FOOT CANDLE LIGHT METER BAKELITE CASE \$20.00. RADIO PANELS SIZE 24" X 7" \$18.00, 26" X 7" \$19.00, 18" X 8" \$18.00. SMALL

REPO (PLASTIC CASE) AM-FM (NEW) CATHEDRAL RADIO 8" HIGH \$14.00. ALL PLUS SHIPPING AND HANDLING. SERVICE SINCE 1930. KRANTZ, 100 OSAGE AVENUE, SOMERDALE, NJ 08083.

STEWART WARNER model 305, Stewart Warner speaker, American Bosch model 360, Silvertone model 1386, Clarion Jr. 320 superheterodyne, small mirror tone deluxe, "ivory colored radio with red knobs, case only for a Kennedy cathedral. Send for new list. Clifford Schoen, 549 Fulton St., Seymour, WI 54165. Phone (414) 833-2429.

FREE: Send 2-stamp LSASE for just released Flyer, No. 189 to: Olde Tyme Radio Company, 2445 Lyttonsville Road, Silver Spring, MD 20910.

MANY THOUSANDS OF OLD TUBES. LARGE 80, 81, 82, 83 BOXES OF WESTERN ELECTRICS RECEIVING AND TRANSMITTING TUBES, PEANUT TUBES, METAL TUBES, E. H. SCOTT TUBES, BOXES OF LOCTALS AND OCTALS. IV TUBES. ALSO FIRST EDITION RIDERS SUBSTITUTION GUIDE BOOK. ONLY SELLING ALL U PICK UP. TUNGAR BULBS. TO: BASIL ABBOTT, #4 BUNKER HILL, RICHARDSON, TX 75080.

FOR SALE: to receive America's best list of radios, tvs, mags, etc.. send \$1.50 for current list to: Jim Clark Enterprises, Dept., HS, 1292 Starboard, Okemos, MI 48864.

SEND LARGE SASE for list of radios., Donald Juleen, 6252 Ledge Road, Sturgeon Bay, WI 54235.

FOR SALE — RADIOLA

VICTOR (ALHAMBRA) lowboy, Orthophonic Victrola in right side, working excellent, Radiola 20 battery radio in left side, tubes and speaker have continuity, did not apply power to battery radio, physical appearance is excellent. Asking \$300 plus shipping costs. Phil Guinan, 106 Page Road, RFD 7, Litchfield, NH 03051. (603) 889-6213.

FOR SALE — PHILCO

PHILCO 95TH ANNIVERSARY limited edition cathedral radio, AM/FM transistor chassis, look a like to Philco model 90 - 1932- collector's item, only \$59.95 plus \$5.00 shipping. Maurer TV, 29 South 4th Street, Lebanon, PA 17042.

FOR SALE — SCOTT

SCOTT ALLWAVE 12 IN NAPIER CONSOLE CABINET, GOOD UNRESTORED CONDITION, CABINET NEEDS MINOR VENEER REPAIR, TUBE COVERS AND COIL CANS NEED RECHROMED. TRADE FOR BEST OFFER OF 1940'S JUKEBOXES AND/OR PRE 1941 SLOT MACHINES. ALVIN HECKARD, RD1, BOX 88, LEWISTOWN, PA 17044.

FOR SALE — SPLITDORF

SPLITDORF JC S 102 308 radio in an Adler Royal cabinet, 44" high 38" wide, walnut with two large doors in front, extra set of tubes \$200.00. (201) 228-0435. J. Baerenrodt, 5 Pine Road, Roseland, NJ 07068.

FOR SALE — TUBES, PARTS, ETC.

TUBES FOR SALE: sub-minatures; 1AD4, 1AH4, 1AJ4, CK636, CK637, CK644. Acorn type; Eimac CIM 15E, 955, 957, 9004. MINATURE; 426A, 9002, 9003. NUVISTOR; 20W4. CRT; 2BP1, 3BP1. TX tubes; VT4C, 10Y/VT25, WE CW 5021, HY40Z, WE 393A, CRP 705A/VT255, JAN 715B, 807, CQN 836/VT236, CKR837, CUE838, 866A, 5514, GL8020. MISC.: 2X2A, 3B24, 3B26, 2K25 KLYSTRON, RK60, CRP72, HY114B, HY615, 717A, 885, 1625, 1626, 1642, 2050, 6080WA, 6550, 7193, MOST ARE NEW. (701) 282-6379, Ernie Jury, RR1, Box 373, Harwood, ND 58042.

THORDARSON FLYBACK YOKES \$15. POSTPAID 2 - 167, Don Aldred, 39 East 8th Street, Jacksonville, FL 32206.

1*****
FOR SALE: UV201A's, good emission, brass base, no tip, (have 60) \$15.00 each; Riders 1-5 abridged, 6 thru 14, \$150.00; AK models 20c, 21, 30, 32, 35, 49; Acme double cone speaker \$35.00; Radiola 17 cabinet \$10.00; Radiola IIIa cabinet \$15.00; Radiola 16 cabinet \$5.00; Shipping extra. Will trade for AK, RCA or DeForest items. — Raymond Thompson, 7422 Cherry Tree Drive, Fulton, MD 20759.

FOR SALE — 500 NEW GE IN BOXES— TUBES— ALSO HAVE TRANSMITTING TUBE LIST. SEND SASE FOR 6 PAGE LIST. RUSS OLMSTED, K4UJZ, 608 W. THOMPSON LANE, MURFREESBORO, TN 37129 (615) 893-5344.

30 DAY SALE: New tubes in original cartons \$2.00 each. 024, 1AD2, 1BC2, 1R5, 2AV2, 3HQ5, 3Q4, 3S4, 4BZ6, 4BZ7, 5AMB, 5J8, 6AH4, 6AL5, 6AW4, 6AWB, 6AQ6, 6AS8, 6AW8, 6AY3, 6BC7, 6BF6, 6BJ8, 6BK5, 6BW8, 6CM7, 6CN7, 6CS7, 6CU5, 6CUB, 6CY7, 6DB5, 6DK6, 6EM5, 6FS5, 6GC5, 6HZ6, 6KZ8,

6U8, 6W6, 7AD7, 8AW8, 8CX8, 10EG7, 12A4, 12AB5, 12AL5, 12AT6, 12AT7, 12AV5, 12AV6, 12AZ7, 12C5/12CJ5, 12D4, 12DB5, 12DT5, 12KS, 13DE7, 14E6, 14E7, 19AU4, 19J6, 35B5, 35W4, 35Z3, 50EH5, 5963, 5964. Add \$2.40 shipping (Wisconsinites add 5%) Don Diers, 4276-S4 North 50th Street, Milwaukee, WI 53216-1313. Send \$1.00 (refundable) for lists of tubes and stuff.

FOR SALE: GRILL CLOTH. New, custom-made material in diamond pattern. Good match for 1930's radios. \$6.00 for 10" X 12" piece, postpaid. Send SASE for sample. Michael Katz, 200 East 30th Street, Apt. 8E, New York, NY 10016. (212) 725-0736.

TUBES ONE-V 6.00, 6V5/6G5-6E5 12.00, 6L6M 17.00, 6L6 GC 10.00, 6 and 12 V 3 and 4 prong vibrators 12.50 all ppd. H. f. Brammell, 204 E. Maple, Americus, KS 66835.

FOR SALE: NEW IN ORIGINAL BOX, 215-A WESTINGHOUSE \$30.00. ONE BRASSBASE UV-201-A TUBE EX. CONDITION POST PAID. \$20.00 NO TIP USED. CLEON BOOTHE, BOX 235, CO-HOCTON, NY 14826.

TELEVISIONS

RCA CT-100 FIRST PRODUCTION COLOR TV set — beautifully restored cabinet and meticulously restored electronics with a great 15" color picture like 34 years ago (1954). An opportunity is now to own a unique electronic invention of the century. SASE and \$1.00 for photo. Bill Russell, 3236 Laurel Canyon, Santa Barbara, CA 93105. (805) 682-8115. Accepting offers through March 1988 (min. bid \$2,500 or \$3,500 sold outright.)

RCA TV Model 8PT7010 in red metal case in working condition. Included second set same model for parts. Make offer. John Schellkopf, 1344 Goucher Street, Pacific Palisades, CA 90272.

FOR SALE — ZENITH

THE CABINET IS IN MINT CONDITION and the radio plays. It is a Zenith 12 tube superhetrodyne with a tuning range 540-18400 kyc., chassis 1204-A. Marshall T. Bond, 8718 Linkfair lane, Houston, TX 77025. (713) 668-0029.

FOR SALE: 1940'S VINTAGE ZENITH CONSOLE radio and phonograph. Cabinet is in excellent condition. \$250.00 — Call (815) 838-5398. 5 p.m. to 10 p.m. c.s.t. Dick Stauss, Rt. 1 Box 399, Lockport, IL 60441.

WANTED — ATWATER KENT

FOR MODEL 812 receiver, original factory service data, any other information, power transformer, Tune-A-Lite lamp. B. T. Wooters, W5KSO, 8303 E. Mansfield Avenue, Denver, CO 80237. (303) 770-5314.

WANTED: ATWATER KENT CATHEDRALS, ESPECIALLY MODELS 90, 92, 228, 246, AND 567. JIM COLLINGS, 12005 VICTORIA PL., OKLAHOMA CITY, OK 73120.

WANTED — BRUNSWICK

ONE PUSH BUTTON for a Brunswick radio. Chassis M-27-6 serial # 1237. It is brown bakelite, 7/16" in. diameter, 1" long. George C. Edwards, Route 3, Box 956, Henderson, NC 27536.

WANTED — CRYSTAL SETS

BUYING HOME MADE OR MFG. CRYSTAL SETS OR ITEMS. Tom Hartley, P. O. Box 29284, Parma, OH 44129

HOMEBREW CRYSTAL SET. Dial type mounted on nice wooden cabinet. Vernon Kostohryz, 600 Lakeside 3A, Brownsville, TX 78520. (512) 541-5692.

WANTED — EDISON

WANTED FOR EDISON STANDARD phono-model B. 1.) mainspring 2.) decals-trademark and "Edison, 3.) cabinet lid 4.) A. K. breadboard in excellent condition. Carl Hickey, 27404 N. Highway 1, Fort Bragg, CA 95437. (707) 964-0505.

WANTED — GENERAL

WANT TO BUY HEADBOARD RADIO, 1949 - 1950. Will pay \$20.00. John Smith, 3824 Dutch Village Road, Apt. 52, Halifax, NS Canada B3L 4G2.

WANTED: 2 - 216A VACUUM TUBES, Continuity check on filament NG. Check with 6 volts 1.3 amps. for filament glow. WANTED: Gillfillan or Garod Neutrodyne receiver. Uses UV199's has meter on panel for A and B voltage. T. Drogoski, 507 Coal Valley Road, Jefferson Boro, PA 15025.

WANTED: CHASSIS FOR CROSLEY Buddy Boy model 58 and speaker, chassis and power supply for AK model 53, part for AK "breadboard" where 3 tubes sit on. Jerome Schliepp, 831 Berlin Road, Ripon, WI 54971. (414) 748-2471.

WANTED: RIDERS 1929 SERVICE MANUAL, VOL. 1; PARTS FOR SPARTON MODEL 15; AK MODEL R HORN; RCA MODEL VII, VIIB; PARTS FOR ZANEY GILL; RAYMOND THOMPSON, 7422 CHERRY TREE DRIVE, FULTON, MD 20759.

WANTED: EARLY CANADIAN RADIO MAGAZINES SUCH AS CANADIAN WIRELESS, RADIO INFORMER AND "RADIO". QST FOR 1918-19 ALL WAVE RADIO, SHORT WAVE CRAFT 1931, RADIO DESIGN AND RADIO BROADCAST 1928. RCA VICTOR R35 WITH CABINET. AUDIO TRANSFORMER FOR RCA R15 OR RCA RADIOLA 48. RADIOLA 20 WITH GOOD AUDIOS. SCREEN GRID TYPE BROWNING DRAKE OR FACTORY BUILT SINGLE CONTROL MODEL. SPARTON TRF MODEL 5-15 1925. COMPLETE CHASSIS WITH DIAL OR JUST GOOD DIAL SCALE FOR RCA 15 OR RCA RADIOLA 48. JONES 7 PIN PLUG WITH OR WITHOUT CABLE. CRYSTAL DETECTOR FOR RADIOLA V AND SE1420. RADIOLA 20 CHASSIS AND RADIOLA 16 CHASSIS BOTH WITH VERY GOOD AUDIO TRANSFORMERS. RON A. MCNEILL. P. O. BOX 472, Yorkton, SASK CANADA, S3N 2W4.

WANTED WANTED 50A1 TUBE. 6CD7 EYE TUBE. OWNERS AND SET UP FOR THE FOLLOWING. TUBE TESTERS WESTON 682. 676. JEWELL 538. PHILCO 050. MOSS 247. B&K CATHODE TUBE REJUVENATOR MODEL 200. RCA 115-A COLOR PIX TUBE TESTER. RCA WV 87-B VTVM. HICKOK 203 VTVM. HICKOK 260 TV PATTERN GENERATOR. SX42 HALLICRAFTER SW REC. XEROX COPIES FOR THE ABOVE OK. KRANTZ, 100 OSAGE AVENUE, SOMERDALE, NJ 08083.

SCHEMATIC AND SERVICE INFO. FOR TELE-TONE TL-208 AND FADA 899 MODEL TELEVISIONS. ALSO NEED 4 DUD, TIPPED WD 11 TUBES. Jim Corio, P.O. Box 233, Blawenburg, NJ 08504. (609) 466-0395.

BUYING SCOTT AND McMURDO SILVER. WILL MATCH OR TOP ANY OFFER. JAMES E. BRAGG, 30881 ALISO CANYON ROAD, ACTON, CA 93550. (805) 269-0528.

DIAMOND "T" RADIO, dead horns, speakers, fixer upper sets, 32 volt items, parts for Bremer Tully Counterphase, Thorola, Stewart Warner 300, will swap repairs or ? — Jim Barratt, 26313 SE Leonard Road, Camas, WA 98607.

FRONT DOOR of AK Kiel table. Also want 16mm sound print of 3 stooges, "A Plumbing We Will Go." Jim Baker, 704 Medway Road, Hagerstown, MD 21740-4130.

WANTED — HALLICRAFTERS

FOR SX-15 SKY CHALLENGER — original owner/ operator manual,

any service information. B. T. Wooters, W5KSO, 8303 E. Mansfield Avenue, Denver, CO 80237. (303) 770-5314.

WANTED — HEADPHONES

NONWORKING OR WORKING HEADPHONES: Advance, Ajax, Allied, Aristocrat, BASCO, Bel-Canto, Benwood-Linze, Berkey, Berstan, Big Three, Blue Streak, Brandes (early model that has "Superior" stamped on wide nickered band), Branston, Brown, Chummy, Clarion, Davis (bakelite), DTW, DECO, Dymac, Eastern, Eisman, Electro Importing, Essex, Ericson, Everyone, Excelllo, Federal 52-W, Friedlander-Koppler, Gold Stripe, Gold Tone, Gundlach-Manhattan, Hart-Hegeman, Hartford, Harvey-Wells, Haynes-Griffin, Huball, International, Interocean, IWB, Jolley, Keystone, Kilbourne Clark, Kodel, Lark, Litewate, Magnus, Metro, MacKay, Majestic, Miller, More Tone, Murdock Special, Music Master, National, Navy Ordance Supply, Ohio, Orator, Penn Headset, Perfectone, Ports, Rasco, Radiocraft, Radiotive, Randolph, Red Head, Royal, Seco, Sears, Spartan, Smelzer, Splitdorf, Sraco, Steinmetz, Sunlight, TBM, Teleradio, Tempest, Trego, Victor, Welbilt, White Beauty, Wireless Specialty, Ben Wolfe. Vernon Kostohryz, 600 Lakeside 3A, Brownsville, TX 78520. (512) 541-5692.

WANTED — LEUTZ

WANTED FOR LEUTZ MODEL "C" superhet.: 2 Weston No. 301 voltmeter 0 - 10 volts DC. 2 Weston no. 301 ammeter 0-5 amps. DC. 4 General Radio type 231 A audio transformer. 6 special Leutz I.F. transformers. 1 special E.I.S. (Leutz) oscillator coil. 1 special E.I.S. (Leutz) R.F. coupler coil. John A. Rawlins, Jr., 1920 Stephenson Drive, Mesquite, TX 75149. (214) 285-2313.

WANTED — LITERATURE

ORIGINAL "OWNERS MANUALS" for 1940's RCA portable radio 8BX6 and 66BX and Motorola portable 65L11 and 65L12. Also original cartons they came in when new! Mike Hanke, 1036 So. 15th Avenue, Wausau, WI 54401.

SERVICE MANUAL FOR NATIONAL NC-7" TV RECEIVERS. FRED EMERSON, 627 ILLINOIS AVENUE, ELGIN, IL 60120.

SCHEMATIC FISHER AMP. STEREO MODEL 400 SERIAL 34732 S. ALL TUBE AND HAS FOUR 7868 IN OUTPUT. J. MC DADE, 204 E. JOPPA ROAD, # 214,

TOWSON, MD 21204.

SAM'S FOLDERS No's. - 55-5, 60-1, 61-16, 80-4, 81-3, 82-1 and 104-2, FRED EMERSON, 627 ILLINOIS AVENUE, ELGIN, IL 60120

INSTRUCTION MANUAL FOR EICO MODEL 950 A RC BRIDGE CONDENSER CHECKER. H. F. BRAMMELL, 24 E. MAPLE, AMERICUS, KS 66835.

EVERY DAY MECHANICS, VOL. I, NO. 4, MAY 1916 OR A COPY OF "HOW TO BUILD A TRANS-ATLANTIC WIRELESS RECEIVING SET. K. A. LADD, 5240 44TH AVE. S., MPLS., MN 55417. (612) 722-6786.

LAFAYETTE RADIO CATALOGS - 1960 THRU 1968, PLEASE STATE CONDITION AND PRICE. MR. MICHAEL S. SABODISH, SR., 11 - A MATAWAN AVENUE, CLIFFWOOD, NEW JERSEY 07721.

WANTED: OPERATING MANUAL and tube data sheets for Jackson Dynamic tube tester model 636. Zerox copy O.K. Frank Hoffert, 19605 Chardon Road, Cleveland, OH 44117.

WANTED - INFORMATION AND SCHEMATIC for Blaupunkt ~~Sutton~~ ~~radio~~ Model number unknown, 5 tube AM/FM/SW. Write Ray Carifio, NALTS, 6014 SW 33rd Street, Miami, FL 33155

WANTED: LIBRARY BOUND volumes of QST, CQ, 73 PRE 1960. ALSO GLOBE SCOUT (WRL), MIKE GRIMES, K5MLG, 3805 APPOMATTOX CIRCLE, PLANO, TX 75023.

WANTED: SCHEMATIC AND INFO on Eico ST 70 amplifier. Gordon Wilson, 11108 - 50 Avenue, Edmonton, Alberta, Canada T6H 0H9.

WANTED: INSTRUCTIONS FOR PACO MODEL 25 IN-CIRCUIT CAPACITOR TESTER RCA WR-50A SIGNAL GENERATOR CRYSTALINER (CRYSTAL MODULES) GENERATOR, GLENN HARTMAN, 5545 DEEP HOLLOW, FAYETTEVILLE, NC 28311.

WANTED — NATIONAL

FOR NATIONAL HRO-50T receiver, original owner/ operator manual, CXO 100/1000 kc. xtal. calib., NBFM-50 adapter, SOJ-3 adapter, coil sets G, H, J, AB, AC. B. T. Wooters, W5KSO, 8303 E. Mansfield Avenue, Denver, CO 80237. (303) 770-5314.

WANTED DEAD OR ALIVE FOR RESTORATION OF NATIONAL HRO COMMUNICATIONS RADIO. OLDER MODEL PREFERRED USING EITHER 57/58 OR 6C6/6D6 TUBES. WILL PAY GOOD PRICE FOR COMPLETE UNITS WITH POWER

SUPPLY AND COILS. DAVE MEDLEY, K16QE, 1450 BAYVIEW HEIGHTS DRIVE, LOS OSOS, CA 93402.

NATIONAL TYPE PSK PRESELECTOR FOR NATIONAL FB7-A RCVR. SW3, FB7 COILS. NATIONAL VELVET-B POWER SUPPLY. PAT STEWART, W7GVC, 1404 RUTH AVENUE, WALLA WALLA, WA 99362

WANTED — PARTS, TUBES, ETC.

CHANNEL SELECTOR KNOB. CHANNEL INDICATOR BEZEL FOR PHILCO PREDICTA. — Joe Cunningham, 917 Lunt Avenue, Schaumburg, IL 60193.

CHROME TUBE CAP FOR NEUTROWOUND BATTERY RADIO. RUSSELL SCHOEN, E. 7340 NIETZKE ROAD, CLINTONVILLE, WI 54929. (715) 823-6744.

TUBE SOCKETS — 3-4-5-6 SITE. COMPOSITE. 2-5-6-7 PRONG / -7 PRONG 1-5-7 PRONG COMPOSITE. WALLACE, 5516 COMPOSITE. JAC, RIVER OAKS, TX 76114. (817) 732-5189.

COOPER-HEWETT MERCURY vapor bulb. TCBA, RR6, Box 181, Glens Falls, NY 12801

FIXED DETECTOR GRID RESISTANCE FOR ATWATER KENT MODEL 32 AK PART # 8190, ALSO GRID LEAK RESISTOR, AK PART #8190. ALSO FOUND IN MODELS 20c- 30- 33- 35. C. Hoffman, 824 Gordon Street, Allentown, PA 18102. Phone (215) 434-2536.

REPLACEMENT CONE MATERIAL FOR STROMBERG- CARLSON 601-TRF COMPANION CONE SPEAKER. LAWRENCE DE ROSE, 12 WILLS AVENUE, R.D.#1, STANHOPE, NJ 07874.

MACHINES SCREWS TO HOLD PANEL TO CABINET, RADIOLA III AND IIIA, I NEED TWO DOZEN. ERNEST HECKLER, 1314 N. SPARKMAN, HARTSELLE, AL 35640.

WANTED — BATTERY RADIO CHASSIS AND/OR ANY INFORMATION ON BRUNSWICK RADIOLA PHONOGRAPH, MODEL BR100, PATENT 1923 — DICK ROZNOVSKY, BOX 480, RICHFIELD, OH 44286.

WANTED: CABINET & AUDIO TRANSFORMERS FOR GREBE CR9, ARTHUR HARRISON, 501 ARBOR DRIVE, COLUMBIA, MO 65201. (314) 474-8729.

DIAL TUNING KNOB AND RESET LOCK SCREW FOR A WARDS 62501 TABLE MODEL RADIO, RIDER 10 - 22, H. F. BRAMMELL, 24 E. MAPLE, AMERICUS, KS 66835.

ZENITH DETECTOR COIL NO. S-8436 USED IN CH, 10A1, 10A2, 10B1, 10B2. ATWATER KENT MODEL 60 A.F. TRANSFORMER ASSEMBLY. L49B BALLAST TUBE.

45 RPM SPINDLE FOR B5R C129 CHANGER EV/GAME 436. CABINET FOR PILOT TV 37. 3KP4 CRT. ELECTRONICS MEASUREMENT CORPORATION. MODEL 502 SIGNAL GENERATOR, ASSEMBLY MANUAL OR SCHEMATIC. AUDIO INPUT XFMRs FOR SINGLE PLATE TO P-P GRIDS. ANY JUNKBOX PARTS, LITERATURE. ANY EARLY TWO AND THREE PIECE CAR RADIOS, UNITED MOTORS, B.O.P., ETC. ANY OTHER FACTORY CAR RADIOS FROM 30'S - 40'S. ANY SIGNAL SEEKING TYPE CAR RADIOS, MUST HAVE KNOBS. CAR RADIO KNOBS. — ALVIN HECKARD, RD1, BOX 83, LEWISTOWN, PA 17036.

EARLY OR UNUSUAL TUBE bulbs pre cartons also e... with prices 1900. Please see Harbeck, 13408 wanted, Omaha, NE 68144. West 333-9013.

HALLDORSON 3 to 1 audio transformer, copper casing. hard rubber panel 10 x 11 x 1/4. Gordon Wilson, 11108 - 50 Avenue, Edmonton, Alberta, Canada, T6H 0H9.

DETECTOR and AUDIO PORTION of GREBE CR2. Also need cabinet for same. NEED FRONT PANEL FOR SCOTT Phantom DELUXE. Larry Steeno, 2728 42nd Street, Two Rivers, WI 54221. (414) 794-7320.

MARCONIPHONE VIII cabinet, also Marconiphone VI chassis, or complete radios cash, or generous trade. Gordon Wilson, 11108 - 50 Avenue, Edmonton, Alberta, Canada, T6H 0H9.

WANTED: EMPTY CABINET for a Philco model 20 cathedral radio. I already have the radio and speaker. Must be in good condition. Joe Beach, 6515 Sunset, Garden City, MI 48135.

WANTED — CABINET AND PARTS FOR A FEDERAL 61. Mike Kibler, 300 Speiter #39, Danville, IL 61832. (217) 267-3703.

WESTERN ELECTRIC TYPE 216A vacuum tube and VT25 or 25A tubes. The 216A must be check in a circuit. Tod Drogoski, 507 Coal Valley Road, Clairton, PA 15025.

TUBES: EARLY UV-217, type CA pliotron, DeForest DV-1 and DV-6, adapter for DeForest type T audion to fit candelabra socket. Parts: rheostat assembly and knob for Tuska 224 rcvr.; case w/hardware for Radiola balanced amplifier. B. T. Wooters, W5KSO, 8303 E. Mansfield Avenue, Denver, CO 80237, (303) 770-5314.

WANTED — PHILCO

WANTED: ANY OF THE 5 TUBE, two knob

Philco Transistones — models: PT26, 28, 36; PT33, 41, 61; PT43, 55, or 69. Fred Geer, 6042 Brookridge Road, Jacksonville, FL 32210. (904) 771-7828.

PHILCO MODEL 90B, work... Thomas Original speaker for... South 20 — must be in... Phone (219) Abell, 1022 Bend, 234

WANTED — PLASTICS

WANTED: CATALIN RADIOS. All makes: FADA, OSWALD, EMERSON, MOTOROLA, etc. Top prices paid. R. Wayne Oliver, 355 Highwood Avenue, Leonia, NJ 07605. (201) 944-0777.

WANTED — SCOTT

WANTED: EH SCOTT, SCOTT transformer or World's Record radios, sometimes copper or chrome plated. Especially looking for Symphony, AC9, Shield Grid 10B, World's Record Super 9, Shield Grid 9B, AW13, AW19, AW27, pointer dial Philharmonic, any Scott in these cabinets: Secretaire, Napier, Warwick, Ravinia Grande, Laureate Grande. Also want original literature, especially issues of THE SCOTT NEWS. Contact me first if you have anything SCOTT to sell. Jim Clark, 1292 Starboard, Okemos, MI 48864. (517) 349-2249.

WANTED — SONY

WANTED: OLD SONY radios. Jay Lewin, 400 east 54th Street, New York, NY 10022. (212) 935-5656.

WANTED — TEN TEC

WANTED: ANYTHING BY TEN TEC. Please state price and condition; condition unimportant: Herman F. Schnur, Rt. B Box 151, Greenville, NC 27858.

WANTED — ZENITH

ZENITH TRANSISTOR Trans-Oceanic 11 or 12 band radio — parts or complete. Have Rider TV manuals 2 thru 23 for offer. Wade, 657 14th Ave., Prospect Park, PA 19076.

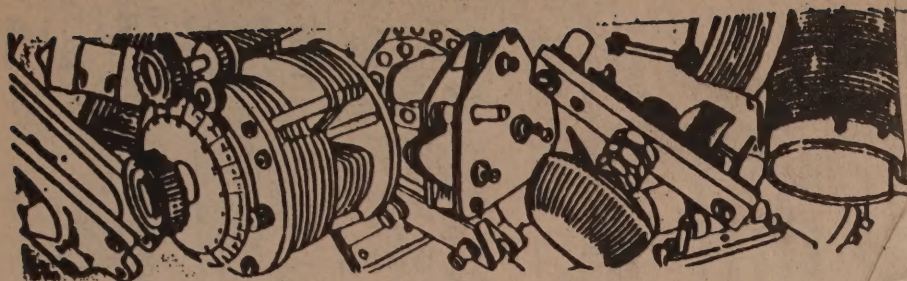
AD DEADLINE

22th of the
preceeding month

APRIL

THE HORN SPEAKER

1989



OLDE TYME
RADIO CO.

Need hard to find Olde Tyme Radio parts such as:

- * Antique twisted, black, 2-wire cloth covered cord.
- * AK Style Battery Cable
- * Olde Tyme Hookup Wire
- * Brown Silk Type Power Cord
- * Gold Silk Type Power Cord
- * Audio, Interstage & Output Transformers
- * Vintage Tubes
- * Headphones
- * Headphone & Speaker cords
- * Ant, RF, OSC & IF coils
- * Speaker Grill Cloth
- * Pilot lamps
- * Olde Tyme Bally and toggle switches

ALSO CAN PROVIDE REPRINTS OF THE FOLLOWING
OLDE TYME RADIO PUBLICATIONS:

- Atwater Kent Instruction Manuals, Vols 1, 2, 3 & 4
- Atwater Kent Equipment Catalog
- Radiola III/IIIA Manual
- VINTAGE RADIO IDENTIFICATION SKETCHBOOKS by D.H. Moore (See Flyer for details)
- Radios, The Golden Age - Philip

and much, much more. Data Pack for American radios manufactured during the 1920's period plus unknown model numbers our special research service and 2-stamp LSASE to are available. For free flyisville Road, Silver Olde Tyme Radio Co., 2445 L Spring, Md. 20910.

Wish to reach us by phone and 10:00 PM local time. Please call between 10:00 and 10:00 PM local time.



R-3 Magnavox
with 14-inch horn

Same in principle and construction throughout as Type R-2, but possessing slightly less amplifying power. Requires one ampere field current from your filament battery.

R-3 Magnavox Radio is ideal for use in homes, offices, amateur stations, etc.

R-2 Magnavox.
with 18-inch horn

This instrument is constructed on the electro-dynamic principle ("the reproducer with the movable coil") making it a most efficient converter of electrical energy into sound waves.

Type R-2 has very great amplifying power, yet requires only .6 of an ampere for the field.

R-2 serves the requirements of professional use for large audiences, dance halls, etc.



3

58905 CORB
ART B CORBUS
5704 11TH AVE NW
SEATTLE WA 98107